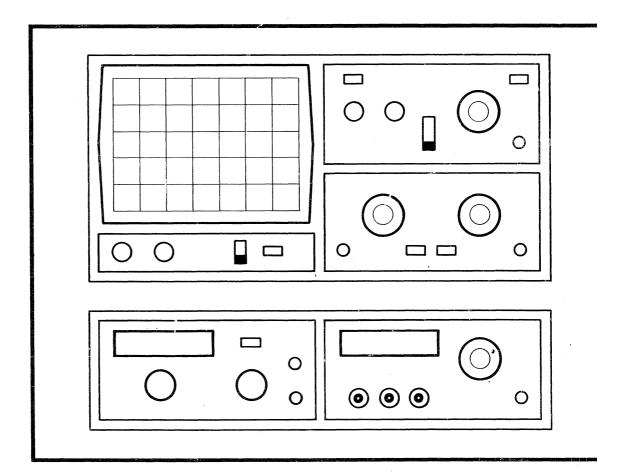
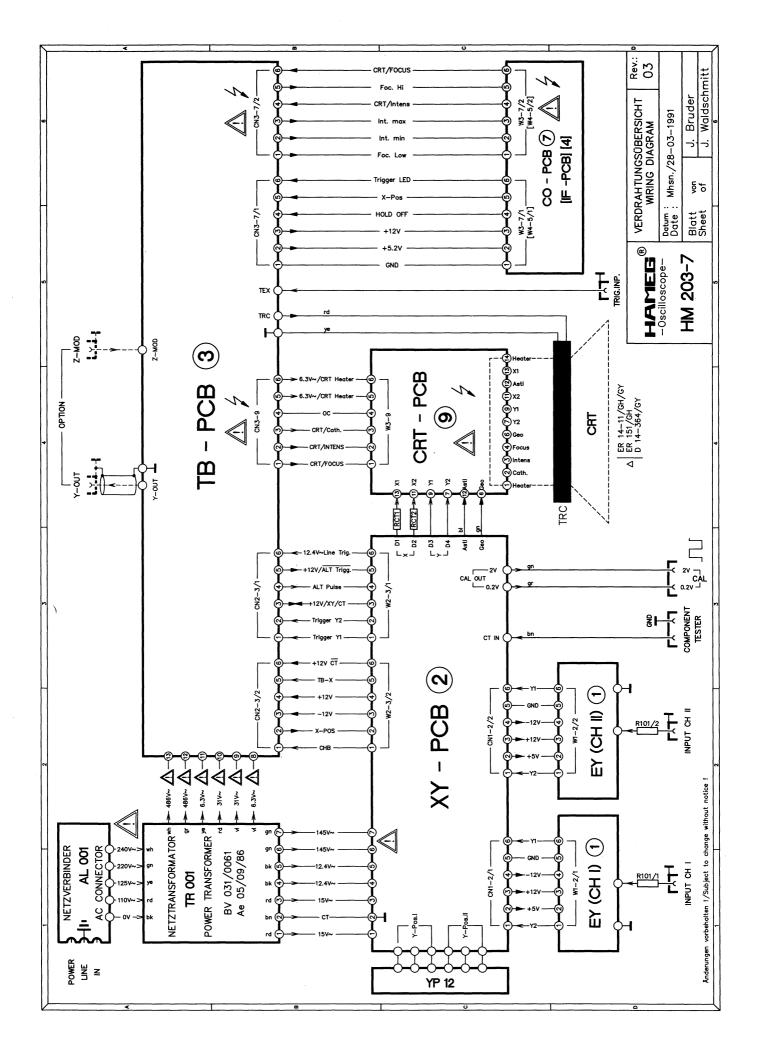


MANUAL

Oscilloscope HM 203-7





Identification of electrical Components

Electrical components on certain parts of	such that the first numeral is on:
schen Bauteile sind so gekennzeichnet, daß die erste	nit der Baugruppen-Nummer übereinstimmt:

erste	. .	÷
(G) Die elektrischen Bauteile sind so gekennzeichnet, daß die erste	D Chassis Y-Engang, ext. Triggereingang. O Garáreste-dez Nartzecheren Netztransformator usw	Conditional Limit (Control of the Control of the Co
.0 1 -	200	,

-Zwischenverstärker, Kanalumschaltungs-Flip-Flop,

riggerschaltung, Zeitbasis, Hold-off Schaltung, Helltastung, IV-Sync.-Sep., Potentiometer für Strahldrehung, Dioden-Schaltlogik, Chopper-Generator, Triggerverstärker, Niederspannungsversorgung, Testleiste, X-Endverstärker, Y-Endverstärker, Component-Tester Hochvolt-Stromversorgung, Testleiste TB-Board

Potentiometer für horizontale Strahllage, Power LED, Potentiometer für Hold-off, Potentiometer für Helligkeit und Fo CO-Board

CRT-Fassung CRT-Board

		such that the first numeral is on:
		Chassis Y-inputs, Trigext. input, Appliance inlet, Power switch, Power transformer
er	÷	EY-Board I+II Attenuator and Preamplifier (Channel I+II), GD-AC/DC switches
	.:	X/Y-Board Y Intermediate amplifiers, Channel selection flip-flop, Y-Gate driver stages, Chopper generator, Trig, and ext. Trigger amplifier, Trig, gate driver stages, LV-Power, Check point strip, Component tester, X-Final amplifier, Y-Final amplifier
	mi.	TB-Board Trigger circuit, Timebase circuit, Unblanking circuit, Hold-off circuit, TV sync. separator, Trace rotation pot., High voltage power supply, check strip
okus	. .	CO-Board X-pos. pot., Power LED, Hold-off potentiometer, Intensity- and Focus potentiometer
	. .	CRT-Board CRT socket

gn/ye = grün-gelb / green-yellow stripe = transparent / transparent white Farbkennzeichnung der Anschlußdrähte / Color-Abbreviations for insulated wire = weiß gr wh trp = violett / viplet = blau / blue = grün g la iz = orange / orange bk = schwarz / black bn = braun / brown rd = rot / red / brown f the HM 203-7 are marked . . vitches

<u>:</u>												
2.	Anschlußfolge der Transistoren		BF 199 BF 311 BF 440	BF 422 BF 423	MPS918 MPS3640	BF 256B-1	(TO 18)	U440	BF 458 BF 472 BD 237	L200C TDA200 1=Input	FST 627	BFS20 Code NA BFS17(AR)
	Terminals of Transistors	900	505 505 505 505 505 505 505 505 505 505				2N2369A (TO18)		BUA80 MJE340			BF596 Code LH
e;										a=Curput		
7	Ansicht	(((((" (G1 S2				
	Bottom view	.I.	(I)	(I.)	Omw	000		010 000 81 81			о оо	SMDi
ь; Б							υ		BCE	5 3 1 4 2		
	Ansicht von oben	(1	(%)	(°)	_	-	m (a	25 (°)	9		_	∪ ૄ ૿ૺ૿
	Top view]°)))	_]•))	, o	0.50 St.	B	245	o & w • • • • • • • • • • • • • • • • • • •	v-∏_m

Beispiel Kabelverbindung: P2-3/1-(5) bzw. W2-3/1-(5)

= Flachkabelstecker (auf Board ..)

رة ش

TB-Board

Check point (check strip)

Festpunkt (Testleiste) Brückengleichrichter

Steckverbinder

Light emitting diode

Bridge rectifier

Diode

Connector Capacitor

Integrated circuit

Integr. Schaltung

Sicherung

Leuchtdiode

Diode

Spule, Drossel

Stecker Lötöse

... S. ...

Fuse

Inductor, Coil

Abkürzungen u. Symbole / Abbreviations and Symbols

Gerätestecker

Kondensator

Appliance inlet

P2-3/1

Flachkabelverbindung: eine Seite verlötet, andere Seite Buchsenleiste ≥

= Verbindung zwischen Board 2 und Board 3

= 1. Flachkabelverbindung zwischen Board 2 und 3

= Draht-Nummer des Flachkabels (0)

Example, cable connection: P2-3/1-ⓑ or W2-3/1-ⓒ respectively Stecker Plug

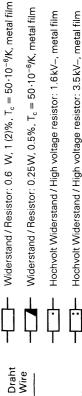
=: Flat cable plug (soldered on board..) ۵

= Flat cable wiring (direct soldered on board) with socket (movable) = Connection between Board 2 and Board 3 2-3 ≥ Buchse Socket

= First flat cable connection between Board 2 and 3 **®**

Serial number of the wire (in the flat cable)

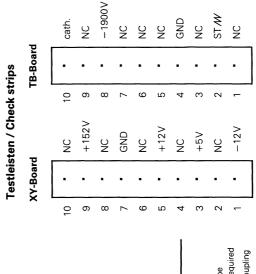
Widerstand- / Resistor identification



Hochvolt Widerstand / High voltage resistor: 3.5kV-, metal film

X/Y-Board 2..

1 6 W2-3/1



Variable capacitor

rimmkondensator

Zenerdiode

> > O

ransformator

ransistor Schalter

ΞΞ.

Fransformer

Fransistor Resistor

Switch

Niderstand

Eyelet

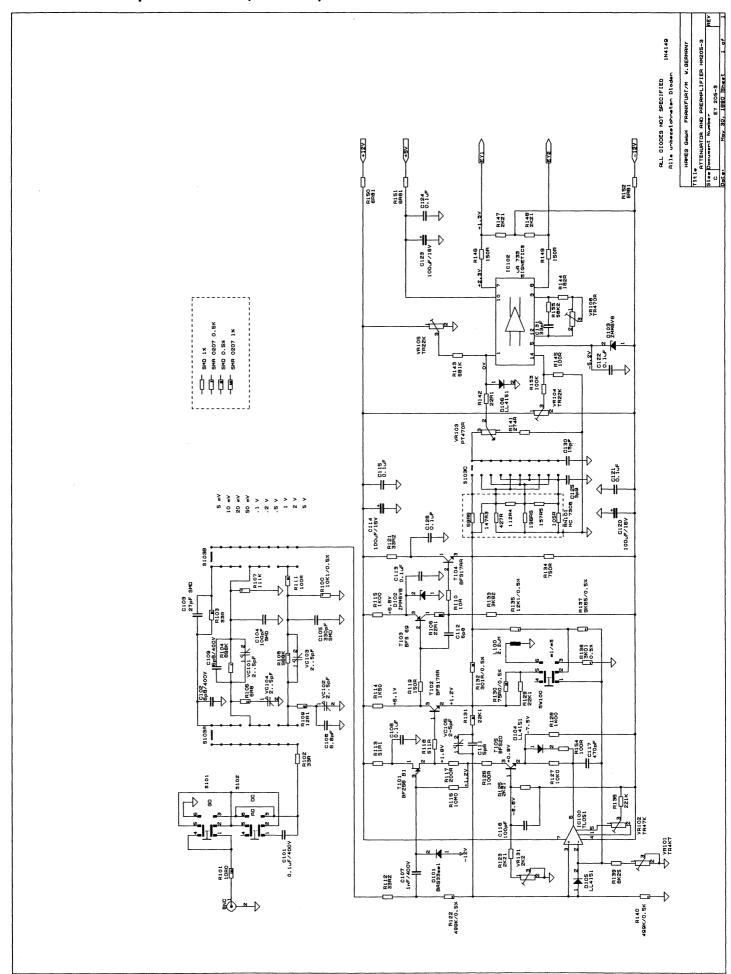
Plug

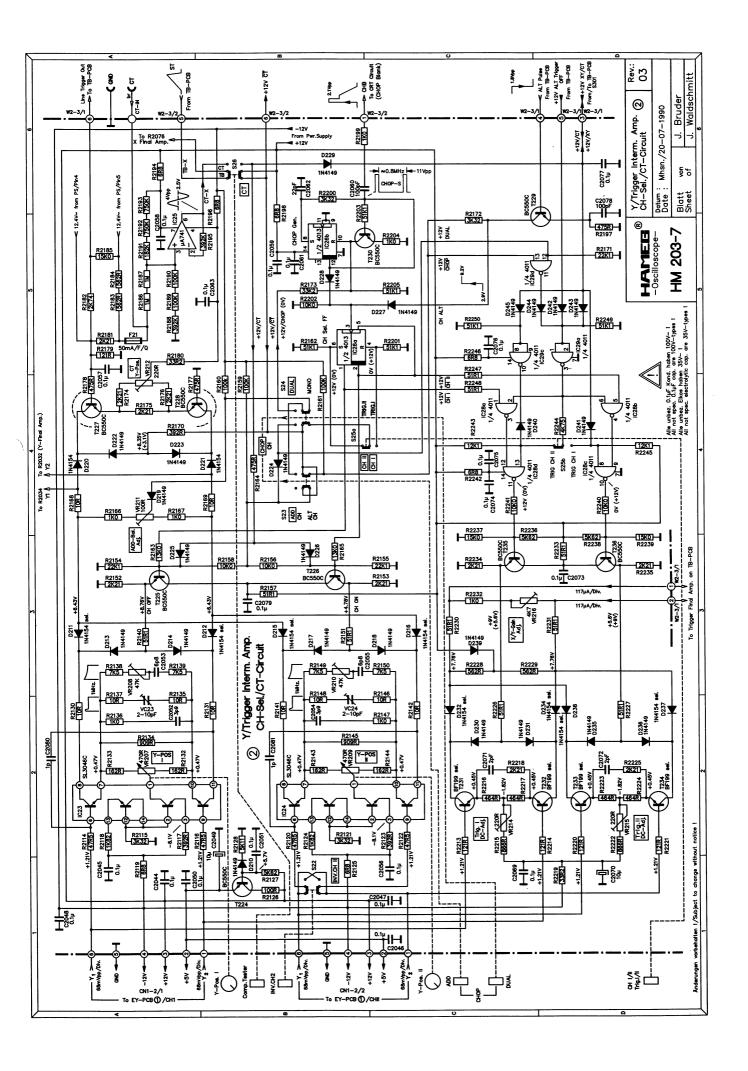
Component when required Kühlkörper/Thermokopplung / Heat sink/thermal coupling Component / value depends on CRT type Depends on model Bauteil / Wert abhängig vom CRT-Typ Bauteil bei Bedarf Modellabhängig

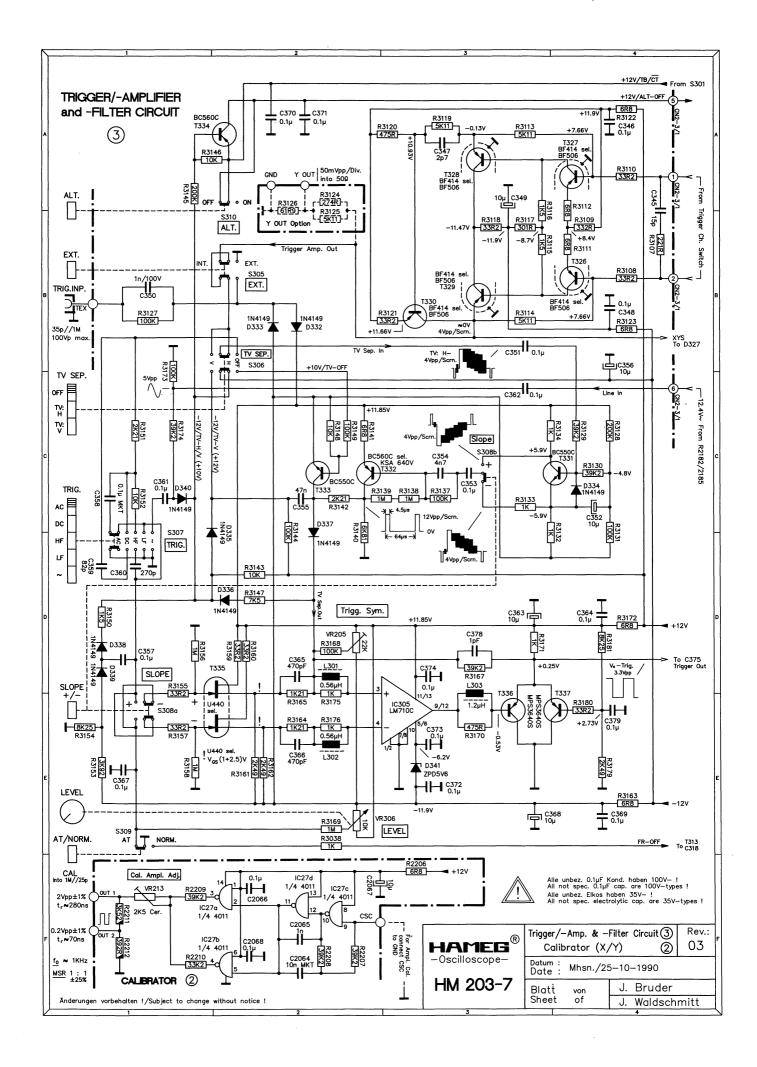
M. Achtung - Hinweise d. Handbuchs berücksichtigen Attention - Refer to manual

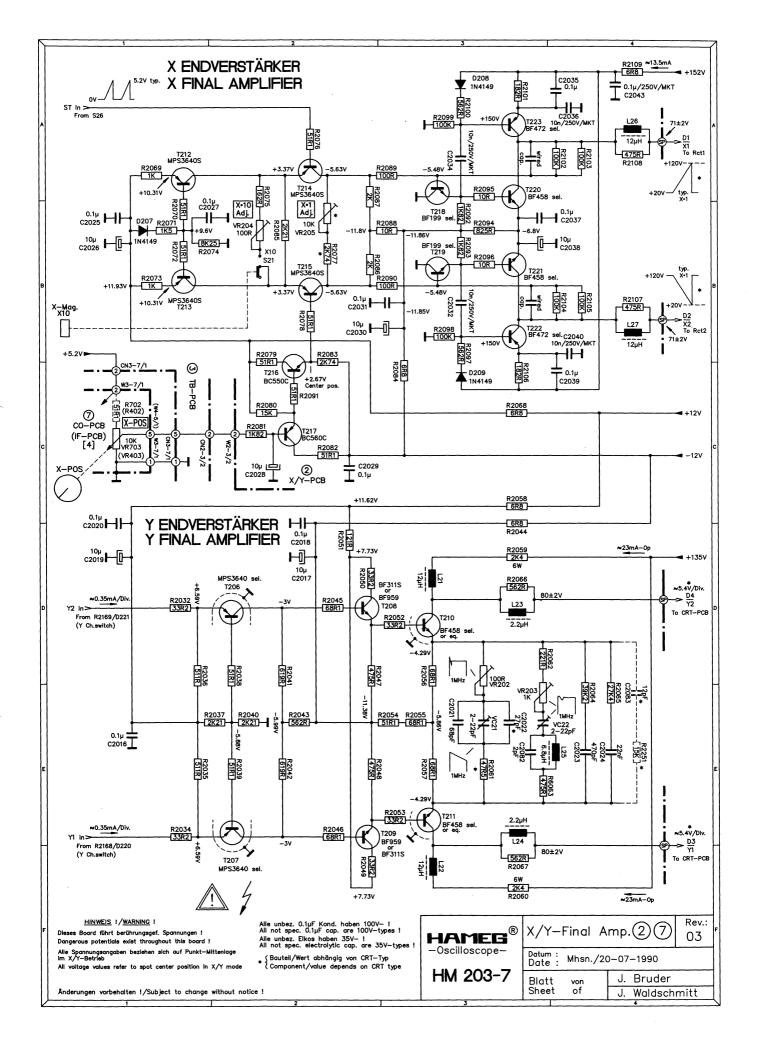
... Gefahr - Hochspannung / Danger - High voltage

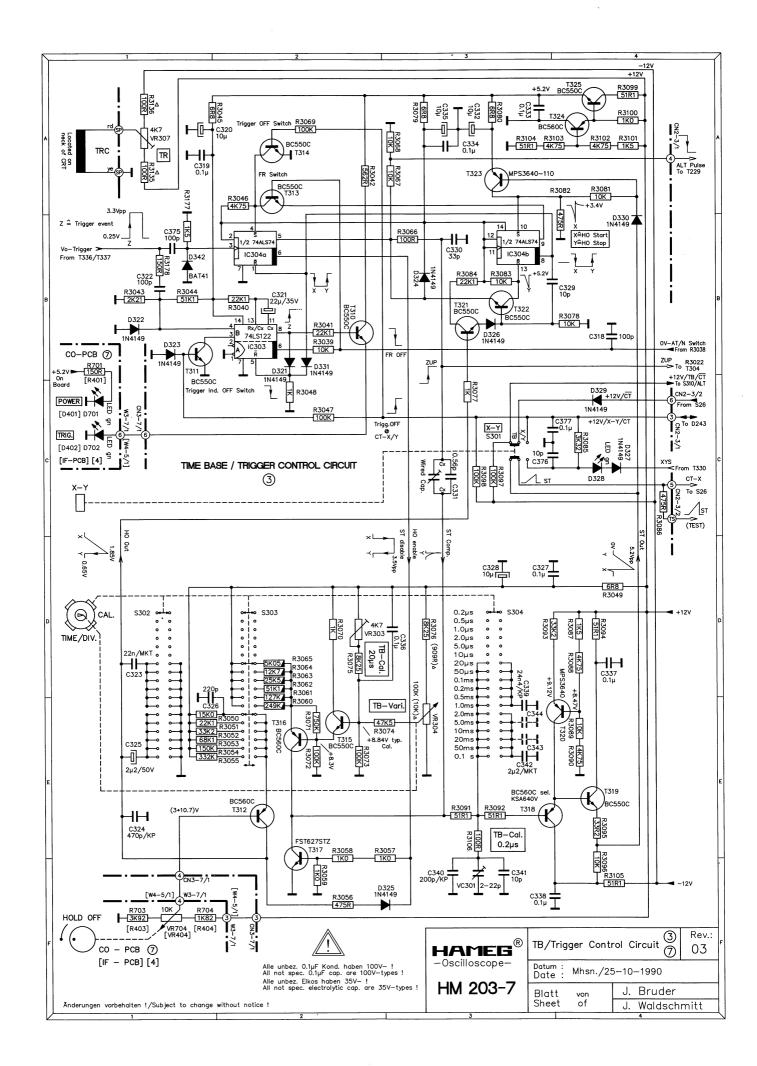
... Schutzleiter - Erdanschluß Protective ground (earth) terminal

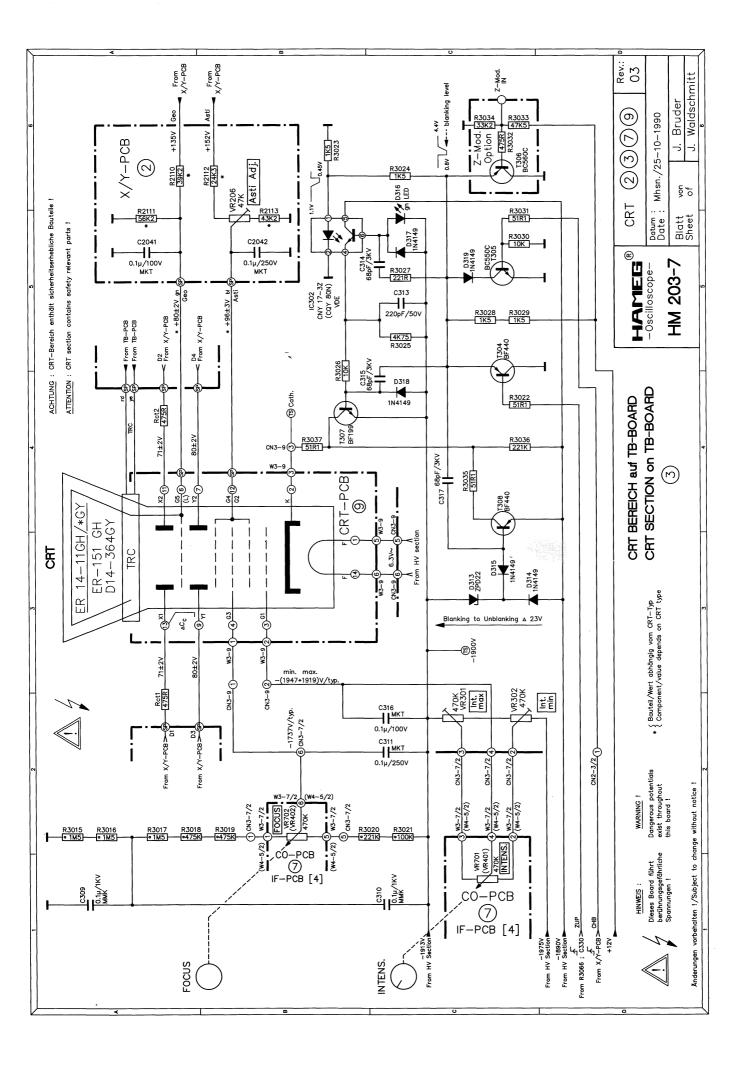


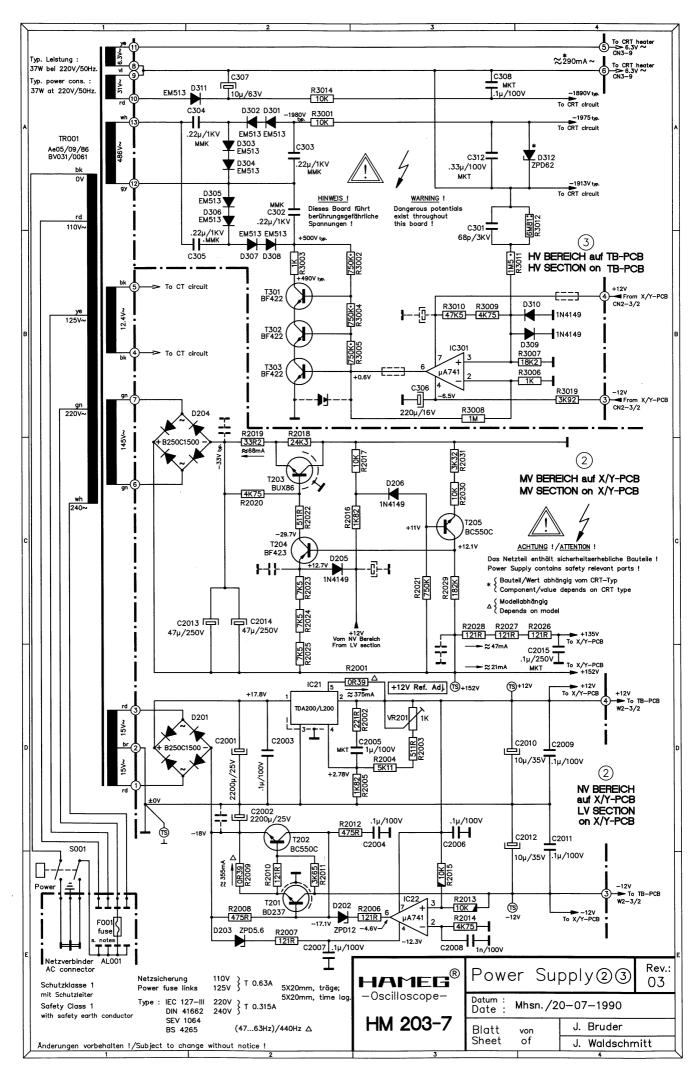






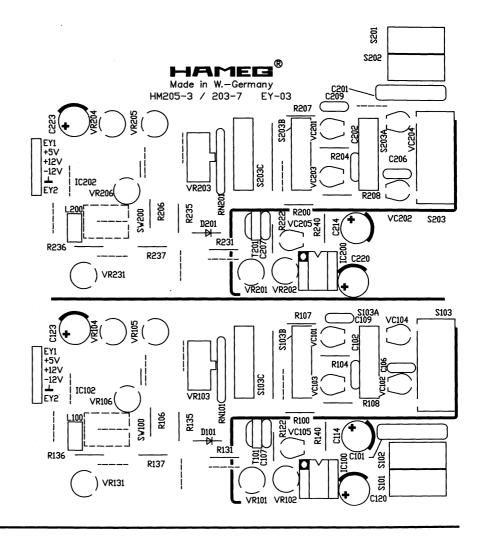






Bestückungsplan EY-Board Component Locations EY Board

oben top



unten bottom

Bestückungsplan IF-Board Component Locations IF Board

